

IN THE CLAIMS:

Please **AMEND** the claims as follows:

1. (Currently Amended) A method of identifying a data stream in a digital television receiver, comprising:
- obtaining a locator adapted for identifying a data stream;
 - associating the locator with one of a plurality of data streams, each one of the plurality of data streams being associated with one of a plurality of television channels; ~~and~~
 - mapping the locator to an IP address, thereby enabling a tuner to read the one of the plurality of data streams associated with the locator, [wherein a first set of one or more IP addresses identifies one or more network interface cards] and a second set of one or more IP addresses is associated with one or more locators such that the second set of one or more IP addresses identifies one or more of the plurality of data streams-;
 - reading one of the plurality of data streams identified by an IP address by a tuner upon determination that the IP address corresponds to a locator identifying a data stream; and
 - [reading data from a network by a network interface card identified by an IP address upon determination that the IP address does not correspond to a locator identifying a data stream.]
2. (Currently Amended) The method as recited in claim 1, further comprising:
- generating the IP address from a set of IP addresses reserved for use in private networks prior to mapping the locator to the IP address.
3. (Currently Amended) The method as recited in claim 1, wherein ~~creating~~ obtaining a locator comprises:
- instantiating a locator object.
4. (Original) The method as recited in claim 3, further comprising:
- garbage collecting the locator object when it is no longer used.
5. (Original) The method as recited in claim 1, wherein each one of the plurality of

data streams is associated with the same one of the plurality of television channels.

6. (Original) The method as recited in claim 3, wherein the plurality of data streams are associated with two or more of the plurality of television channels.

7. (Original) The method as recited in claim 1, wherein each one of the plurality of data streams is associated with a single tuner.

8. (Original) The method as recited in claim 1, wherein the plurality of data streams are associated with two or more tuners.

9. (Currently Amended) The method as recited in claim 1, further comprising:
allocating a private IP address to be mapped to the locator, wherein mapping the locator to an IP address includes mapping the locator to the private IP address.

10. (Currently Amended) A method of selecting a data stream in a digital television receiver, comprising:
obtaining a data stream locator associated with a data stream;
providing the data stream locator to an interface map, the interface map being adapted for mapping one or more data stream locators to one or more IP addresses; and
receiving an IP address associated with the data stream locator from the interface map, wherein a first set of IP addresses including the IP address is associated with one or more data stream locators such that the first set of IP addresses identifies one or more data streams associated with one or more television channels and a second set of IP addresses identifies one or more network interface cards, thereby enabling one or more tuners to read the data streams associated with the first set of IP addresses and enabling the network interface cards identified by the IP addresses to read data from a network.

11. (Currently Amended) A method of selecting a data stream in a digital television receiver, comprising:
obtaining an IP address;

determining whether the IP address corresponds to a data stream locator associated with a data stream; and

when it is determined that the IP address corresponds to a data stream locator associated with a data stream, ~~selecting~~ reading the data stream associated with the data stream locator by a tuner; and

when it is determined that the IP address does not correspond to a data stream locator associated with a data stream, reading data from a network by a network interface card identified by the IP address.

12. (Currently Amended) The method as recited in claim 11, further comprising: instructing a the tuner to read the data stream associated with the data stream locator.

13. (Currently Amended) The method as recited in claim 12, wherein instructing a the tuner to read the data stream associated with the data stream locator comprises instructing a tuner that is tuned to the data stream to read the data stream associated with the data stream locator.

14. (Currently Amended) The method as recited in claim 12, wherein instructing a the tuner to read the data stream associated with the data stream locator comprises instructing a tuner that is currently unused to read the data stream associated with the data stream locator.

15. (Currently Amended) The method as recited in claim 11, further comprising releasing the IP address for future use when the IP address is no longer being used and the IP address corresponds to a data stream locator associated with a data stream.

16. (Currently Amended) The method as recited in claim 11, wherein determining whether the IP address corresponds to a data stream locator associated with a data stream is performed by an interface map responsible for mapping one or more locator objects to one or more IP addresses, each one of the locator objects being associated with a data stream, the method further comprising:

instructing the interface map to release the IP address for future use when the IP address is no longer being used and the IP address corresponds to a data stream locator associated with a data stream.

17. (Cancelled)

18. (Cancelled)

19. (Original) A method of selecting multicast IP data transmitted in broadcast streams, comprising:

obtaining an IP address;

determining whether the IP address corresponds to a data stream locator associated with a data stream;

specifying a multicast group address associated with the IP address;

when it is determined that the IP address corresponds to a data stream locator associated with a data stream, instructing a tuner to read the data stream associated with the data stream locator and to receive packets addressed to the multicast group address; and

when it is determined that the IP address does not correspond to a data stream locator associated with a data stream, instructing a network card identified by the IP address to listen to the multicast group address.

20. (Original) The method as recited in claim 19, further comprising:
receiving packets addressed to the multicast group address.

21. (Currently Amended) A method of selecting multicast IP data transmitted in broadcast streams, comprising:

obtaining an IP address, the IP address ~~having~~ being mapped to an associated data stream locator identifying a data stream associated with a television channel;

determining that the IP address is mapped to a data stream locator identifying a data stream associated with a television channel;

specifying a multicast group address associated with the data stream; and

instructing a tuner to read a the data stream associated with the data stream locator and receiving packets in the data stream that are addressed to the multicast group address by

the tuner when it is determined that the IP address is mapped to a data stream locator identifying a data stream associated with a television channel.

~~specifying a multicast group address associated with the data stream; and~~

~~receiving packets addressed to the multicast group address.~~

22. (Cancelled)

23. (Cancelled)

(Please **ADD** claims as follows:)

24. (New) A computer-readable medium storing thereon computer-readable instructions for identifying a data stream in a digital television receiver, comprising:

instructions for obtaining a locator adapted for identifying a data stream;

instructions for associating the locator with one of a plurality of data streams, each one of the plurality of data streams being associated with one of a plurality of television channels;

instructions for mapping the locator to an IP address, thereby enabling a tuner to read the one of the plurality of data streams associated with the locator, wherein a first set of one or more IP addresses identifies one or more network interface cards and a second set of one or more IP addresses is associated with one or more locators such that the second set of one or more IP addresses identifies one or more of the plurality of data streams;

instructions for reading one of the plurality of data streams identified by an IP address by a tuner upon determination that the IP address corresponds to a locator identifying a data stream; and

instructions for reading data from a network by a network interface card identified by an IP address upon determination that the IP address does not correspond to a locator identifying a data stream.

25. (New) An apparatus for identifying a data stream in a digital television receiver, comprising:

means for obtaining a locator adapted for identifying a data stream;

means for associating the locator with one of a plurality of data streams, each one of the plurality of data streams being associated with one of a plurality of television channels;

means for mapping the locator to an IP address, thereby enabling a tuner to read the one of the plurality of data streams associated with the locator, wherein a first set of one or more IP addresses identifies one or more network interface cards and a second set of one or more IP addresses is associated with one or more locators such that the second set of one or more IP addresses identifies one or more of the plurality of data streams;

means for reading one of the plurality of data streams identified by an IP address by a tuner upon determination that the IP address corresponds to a locator identifying a data stream; and

means for reading data from a network by a network interface card identified by an IP address upon determination that the IP address does not correspond to a locator identifying a data stream.

26. (New) An apparatus for identifying a data stream in a digital television receiver, comprising:

a processor; and

a memory, at least one of the processor and the memory being adapted for:

obtaining a locator adapted for identifying a data stream;

associating the locator with one of a plurality of data streams, each one of the plurality of data streams being associated with one of a plurality of television channels;

mapping the locator to an IP address, thereby enabling a tuner to read the one of the plurality of data streams associated with the locator, wherein a first set of one or more IP addresses identifies one or more network interface cards and a second set of one or more IP addresses is associated with one or more locators such that the second set of one or more IP addresses identifies one or more of the plurality of data streams;

reading one of the plurality of data streams identified by an IP address by a tuner upon determination that the IP address corresponds to a locator identifying a data stream; and

reading data from a network by a network interface card identified by an IP address upon determination that the IP address does not correspond to a locator identifying a data stream.

IN THE SPECIFICATION:

Please **AMEND** the abstract as follows:

A2: Through the association of an IP address with each data stream, a single system may be used by a network card or a tuner to select multicast IP data. Each data stream associated with a tuner is identified by a unique IP address. More particularly, a locator adapted for identifying a data stream is obtained, where the locator is associated with one of a plurality of data streams. The locator is then mapped to an IP address. Through the use of this mapping, a digital television receiver may obtain the appropriate locator to read the associated data stream. It is then determined whether the IP address corresponds to a data stream locator associated with a data stream. When it is determined that the IP address corresponds to a data stream locator associated with a data stream, a tuner is instructed to read the data stream associated with the data stream locator. However, when it is determined that the IP address does not correspond to a data stream locator, a network card identified by the IP address is instructed to read data from the associated network. Since each data stream may be associated with a plurality of multicast IP addresses, a multicast group address is specified to identify the appropriate multicast IP data transmitted in the data stream. Packets addressed to the multicast group address may then be received by either a tuner or a network interface card.

On page 11, lines 14-21, please **AMEND** the specification as follows:

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FIG. 4 is a diagram illustrating the use of locators to identify data streams in accordance with an embodiment of the invention. As described above, multiple data streams 216, 218, and 220 may be associated with a single multicast IP address. In order to distinguish the data streams 216, 218 and 220 from one another, a locator adapted for identifying a data stream is associated with each of the data streams 216, 218 and 220, as shown at L1 402, L2, 404, and L3 406, respectively. Each of the data streams 216, 218 and 220 may be associated with the same channel or a different channel.

On page 14, line 19-page 15, line 6, please **AMEND** the specification as follows:

PK
Computer system 1502 ~~1530~~ or, more specifically, CPUs 1504 ~~1532~~, may be arranged to support a virtual machine, as will be appreciated by those skilled in the art. The computer system 1502 includes any number of processors 1504 (also referred to as central processing units, or CPUs) that may be coupled to memory devices including primary storage device 1506 (typically a read only memory, or ROM) and primary storage device 1508 (typically a random access memory, or RAM). As is well known in the art, ROM acts to transfer data and instructions uni-directionally to the CPUs 1504, while RAM is used typically to transfer data and instructions in a bi-directional manner. Both the primary storage devices 1506, 1508 may include any suitable computer-readable media. The CPUs 1504 may generally include any number of processors.